THE

NATIONAL GEOGRAPHIC

MAGAZINE

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PRINCE LUNG AMADED OF SAVEN-AOSTA, BULLE OF ACRUZZO

NATIONAL GEOGRAPHIC MAGAZINE

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OR TOBER, 7000

No. 10

THE LESSONS OF GALVESTON

By W J McGin:

Formerry temporal on County Country Phone Phone on, C. S. Genterient Survey

The darkest horror of American history has fallen on our southern coast: a city comparable in population and wealth with Ephesus and Sodom of old, with Herculaneum and Pompell of appailing memory, and with earthquake-wrecked Lisbon of later confuries, is blotted out in a night. Thirty-eight thousand people, the life and soul of a progressive and thriving city, are overwhelmed and doubly decimated by wand and wave in the darkness; literal thousands are emaked in their own falling houses or drowned to the raging waters : every survivor is made homeless, and most of them are utterly impoverished. The morning's sun rises on a scene of suffering and decastation hardly paralleled in the history of the world-a scene which has been, and will be again and again, described by langue and pan, but never in more than a fraction or suggestion of the ghastly details. One of the awful chaos spring the frem progeny of catastrophe, begotten of the best and the worst of humanity-Heroism, clad gloriously in helpfulness and self-abnegation and Choullen, shrouled vitely in cowardice and unholy greed. For many hours the disaster is secluded by the very extent of its wreckage, but the next day brings sympathy and substantial aid in a measure enequaled in the amale of nations: the great State of Texas is stirred into noble activity; hard-pressed Federal officials turn promptly from grave political and international problems toward the stricken city on the coast, while literal millions of fellow-eithers spring to seek means of contributing to the alleviation of the lot of the sufferers. Viewed as a physical phenomenon. the destruction of Galreston was a moving spectacle; viewed in its effect on human sympathy, it was sublime beyond all precodent.

Sevent lessons of the Calveston horror are well worth reading and pondering:

The first beson is the old, old one of experence summed in parable, which bans the building of a house on sand. Galreston was founded on a sand bank -a mere wave-built cay or key-made by the waves of average storms during a few centuries. Up to its highest point tless than a dozen feet above low tide; the earth of the island compersed alsolutely neithing but wave-cast said and six, and to a depth of at least balf a mile in varient measure there is no solid rock; the strata are laces sands and ents and roud beds, nowhere form enough to afford a sure foundation. Coccopycally the deposits are those of the Pleisuceure Columbia formation to a cepth of several hundred feet, and these are underlain by lithologically similar deposits of sereral Torting formations. The successive formations from the Columbis downward are mechanical deposits; they are not comented with referreous or silicious substance. like some of the formations of the castern Gulf coast, nor are they bound together by comiling masses like some of the West India litterals; they isclude little material save water logged mude and silts, somi-solnlifled by pressure at depths, but nowhere lithilled into firm edges. And what is trun of Galveston is measurably true of the entire western trull coast from Yura true to the Messes ippl passes; no wome const-stretch for formulations exits in the world, and none other so had is of anything like equal extout.

The second become to but the first raised from the plante of onperience alone to that of recognition of natural agencies. The sand bank on which Gaireston was built is something more toon a simple heap of silicious grains and dust; it is a record of past wave-work which might well have deferred the founders of the city. The most conspictous work of waves and wand-driven sea-currents is the building of bars of sand or grave gathered from neighboring share stretches or washed up from shallow bottoms; only less conspicuous is the work of these agents in carving sea-cliffs. Both modes of work are preeminently characteristic; there is not a mile of our eastern and southern coasts, from St Craix River bounding Maine to the Ric Grande bewond Texas, without one or the other of these products of son-work. On some coast-stretches, like that of southern New Jersey, the ban and sea cliffs alteroate, the one stretching across the mouths of valleys om bouching toward the sen, the other truncating the divides between the valleys; along higher and rackier shores, like those of

New England, the sea cliffs predominate; but along the fiathe quarte, like must of those along the Guil, the bars-the keys of the vernacular-predominate, and are commonly separated from the mainland by sounds; so that everywhere the character of the shore is determined primarily by its height above this, secondarily by the work of waves and sea currents in building bars and carving cliffs. Now the important point in connection with the bar or key is the fact that it is built by waves anied by the currents, so that its height and bremath afford a fair measure of local wave-work-not of the idle sipples of the calms, not even of the breakers of lesser storms, nor yet of the great hurricance bappening by at intervals of conturies, but of the greater storms of chirent decades. So the crest of the key marks the reach of the great but not phenomeoni tempest, and its seaward stope gives some indication of the frequency of such storms, the steeper slope attesting a more frequent wave-work; while the effect of the century rare typhoon is rather to destroy than to bond symmetric keys, such as those skirting our Gulf coast and some stretches of the Atlantic shore thence northward. Other factors, including customary this and prevailing winds, affect this sea work; but they are supportionate. Thus, the clongs ted kee on which the city of Galreston stead was but a milital sterm-record; and it was nerely by change of weather history that she so long survived.

It is the business of the cogineer and architect to look to foundshous, and to arond the tendstional house on the sand; but it is the duty of the unitare startent to interpret matural records and guard against the building of houses within reach of storm waves-till more against building on the storm-records the assives. Fortunately the students of nature are now legion, the geologists and physical geographurs from Harvael and Stanford, Columbes and Cornell, Yalo and Chicago, and a score of other institutions of condern learning are diffusing actual knowledge with unprecedented rapidity; even the proce progressive public schools, like these of Washington during the last lustrum, are substituting real knowledge for the husks of learnpog, and incuresting ideas of nature-work which wall be of inestinable value in guiding the location of cities and bridger, milways and moles, with proper regard to natural conditions-and it is not too much to hope that every citizen of this collabiened land may soon be able to interpret such simple and self-evolent nature-products as storm-built bure and keys, and that if he sees ht to build a wharf or erert a warehouse on a storm record he will do so with his eyes open,

with clear knowledge of the risks involved, and with due precautions for the safety of the helpless and dependent in his own family and others.

There is a third lesson, less simple than the first and second, but far too important to be neglected: it is the lesson of coast subsidence. already bearned by Holland and Holgoland, and now forcing itself on Louisiana and Texas as well as New Jersey. The student who scans the shores of Atlantic and Guif, either on the ground or on the admirable maps of the Coast and Geodetic Survey and the Hydrographic Office of our Navy, soon perceives that the relations between wave built bars and wave-cut seaseliffs vary from const-arretely to constatretch. On the New Jersey coast the cars are beaten well back to or beyond the line of the sea chiffs, so that the peness or sounds behind the bers are relatively short and discontinuous; along the Florida consts the keys stand farther out to sea, and are separated from the mainland by great clougated sounds often affording pavigable unterways; while about the northern shores of the Gulf the relations of the keys to sounds are more variable. Closer study serves to interpret these variable relations: from Florida westward to Mobile Hay the keys are pearly continuous and the sounds long and parrow; thence westward to Lake Borgus the typical keys are lost, though their lines continue to a series of islands -Ship Island, Horn Island, Cat Island, stc. -- separated from the mainland by the broad Mississippi Sound; still further westward a new series of keys, erratic in form and trend, appears in the Chandeleur Islands, and beyond the delta there is a corresponding (and correspondingly erratic) series of low keys stretching westward nearly or quite to Atchafalaya Bay. Now, the mainland shore of Mississippi Sound is marked by a series of small and narrow keys and sounds, evidently in process of growth, but much less advanced than those east of Mobile Bay; and these are among the evidences that along this atretch of above the Gulf has encreached on the hand to such an extent as to heave the original keys 20 to 40 miles behind. Similarly the Chandeleur beys and the corresponding series west of the delta are small and own and obviously connected with the delta building. But west of Atchafalaya Bay the coast is characterized by the absence of keys and sounds; save of the infantile sort. like those of the inland show of Mississippi Sound; so that this shore seems incongruous with the rest, until the student discovers the long line of completely submerged keys-Sabine Bank, Triulty Shoal, Ship Shoal, etc .- in a position precisely corresponding to the islands south of Massissippi Sound and forming a direct submarine connection (save as out off by the delta) between these islands of the eastern Gulf and the well developed kess of the southern Texas shore. The position of these banks, like that of the Horn Island and its fellows, is such as to demonstrate that the waters have invaded the mainland, and that west of the delta the engrowthment has been sufficient not merety to push back the shoreline 60 to 100 miles but to completely submerge the amount keys. The most striking feature of these drowned and half-drowned keys is their symmetric arrangement; except for the interruption by the delta [with its new and lesser sand hanks), the great hars form a awaeping curve regular as the beach line of a land-locked bay, and hence afford a rough measure of the outbuilding of the delta as well as of the inracion of the Gulf on its flanks. Hardly less striking than the symmetric motry of the series is the closeness of continuity between keys and banks; and it is a significant fact that Galveston Island is the northeastern terminas of the west-const system of keys, the last stretch of these sand banks still rising above the level of tide.

It is the business of the geologist to detect and weigh the evidences of subsidence or elevation of coasts and to estimate the rates of movement for the guidance of local residents and investors, and it believes such ettizens to avail themselves of the scientific researches. The observations on the rise and full of various coasts are impressive: Holland derives its name from its subsidence, coupled with the building of dikes for the protection of the land; the Island of Batavia, inhabited in the days of Tacitue, is drowned; Zuyder Zee was formed by an invasion of the sea about the end of the 13th century, and the Netherland polders (or dike protected lands) are maintained only by artificial embankments which have been raised from generation to generation until now cultivated fields lie 7 to 10 meters below tide level. The measure of the rate of subsidence of the Helland coast ranges from .09 to ,75 meter per century ; since 1732 the mean has been 26 meter or nearly a foot, per century. The subsidence of the New Jursey coast was estimated at two feet, per century by State Geologist Cook it has communed so long that fresh-water codur against have been submerged and the forests imbedded in sabnemuelss, whence it is a profitable business to mane the logs for lumber; and in consequence of the current sinking the Atlantic is encreaching and swallowing or destroying estates and homes to the value of many thousand deliars amountly. The subsidence

of the Gulf coast is less southdently known; but the geologic indications are that it is at least between Mobile Bay and Calveston Harber nearly as rapid as on the New Jersey coast, and more rapid than on the Netherland coast at least since the building of the likes I we that the rate cannot justly be estimated at less than a fact per century. Naturally this rapid autholdmen has resulted in other course trophes it were folly to forget: Witness the swallowing of Libdu Darnione, a health and pleasure resurt of New Orleans, with most of its transient population-"the wealth and beauty of the Creon parishes" - just 44 years before tialveston; witness too, the record of personal observation on the Louisiana coast by the buillings words painter Lafeadin Hearn: "The sea is devouring the hard. Many and homy a write of ground has yielded to the tireless charging of Ocean's cayslry. Far out you can see through a good glass the porpoises at play where of old the sugar cane shook out its willion buroprets, and shork line now some deep water above a site where pageous ared to con . . . Grand ferre is going : the sen mines her fort, and will before many years carry the rampurts by storm. Grand Isio is going, slowly but surely; the Gulf has enten three miles into but meadowed land. Last Island has gone!" Witness. also, Engineer Cortacli, the strawsor of Earls in some of the pro-t remarkable engineering enterprises of the century (in this Magazine, volume viii, 1897, page 352): "On Belize Bayou . . . stands nu old Spanish magazine, built over 200 years ago. At the time of building the jetties at the mouth of the South Pass [1877] this mayasine was . . . standing perfectly byed, but with the surface of the water stretching across the arch which crowned the cutraine door, the stil of which must have been at least 10 feet below the water. Sincteen years later a part of the structure had been removed, but enough of the roof and areless remained to show that the aubsidence had continued steadily at about the zame rate as during the preceding 250 years. It may be stated that this rate . . . is . . about one-ball of one touch of a fact per anymens." And let if not be forgother that of all foculties on the Gull const Galveston is most exposed; it is the last of the great natural ourbankments of the west coast remaining unsalmarged, and human is open to a wider range of gales than any other; it is the point of contact between apposing forces, the band subsidence on the one hand and wave-building on the other hand, just as was Sabino Bank in its day -- but, like that bank, it is bound to be overwhelmed by

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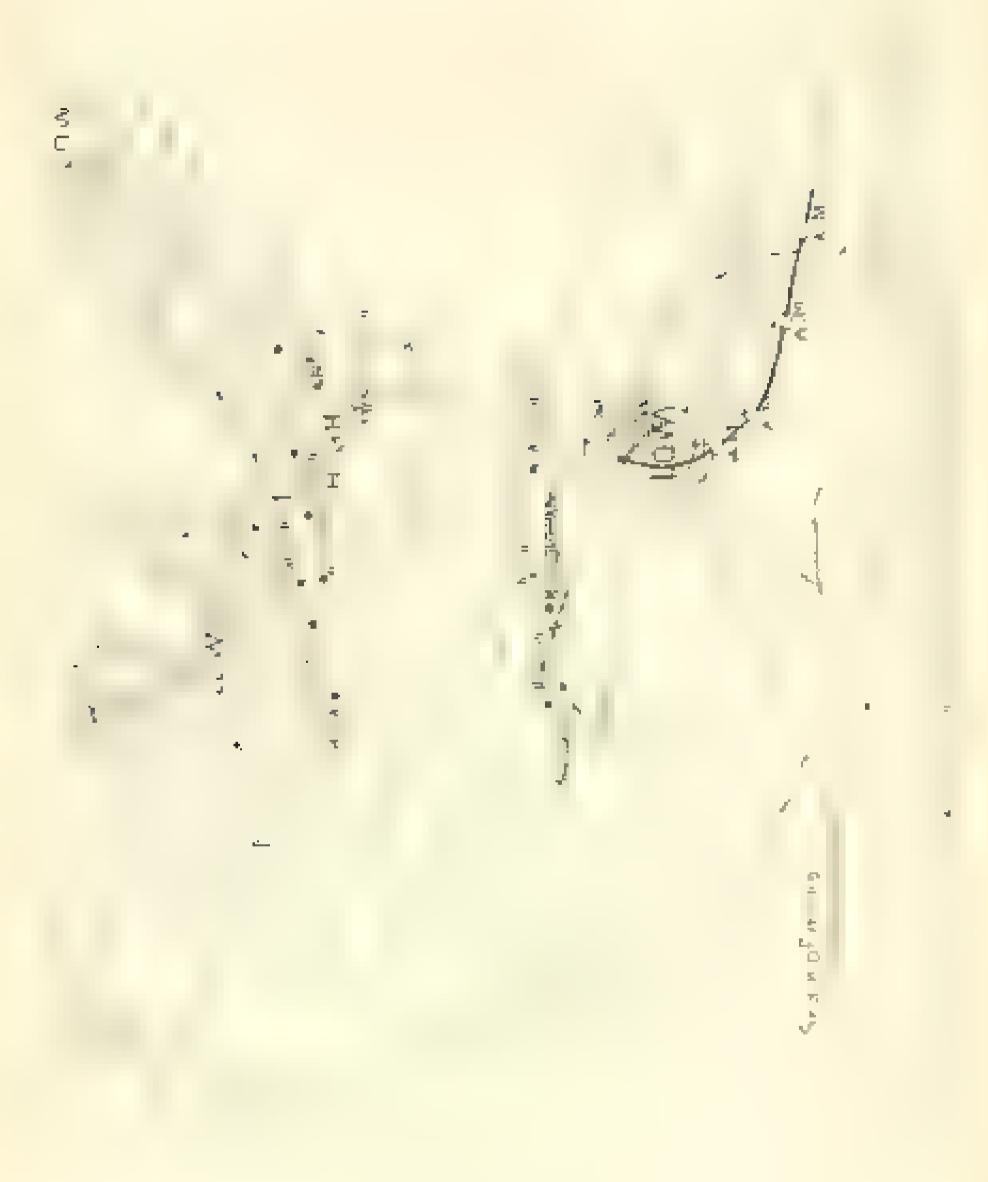
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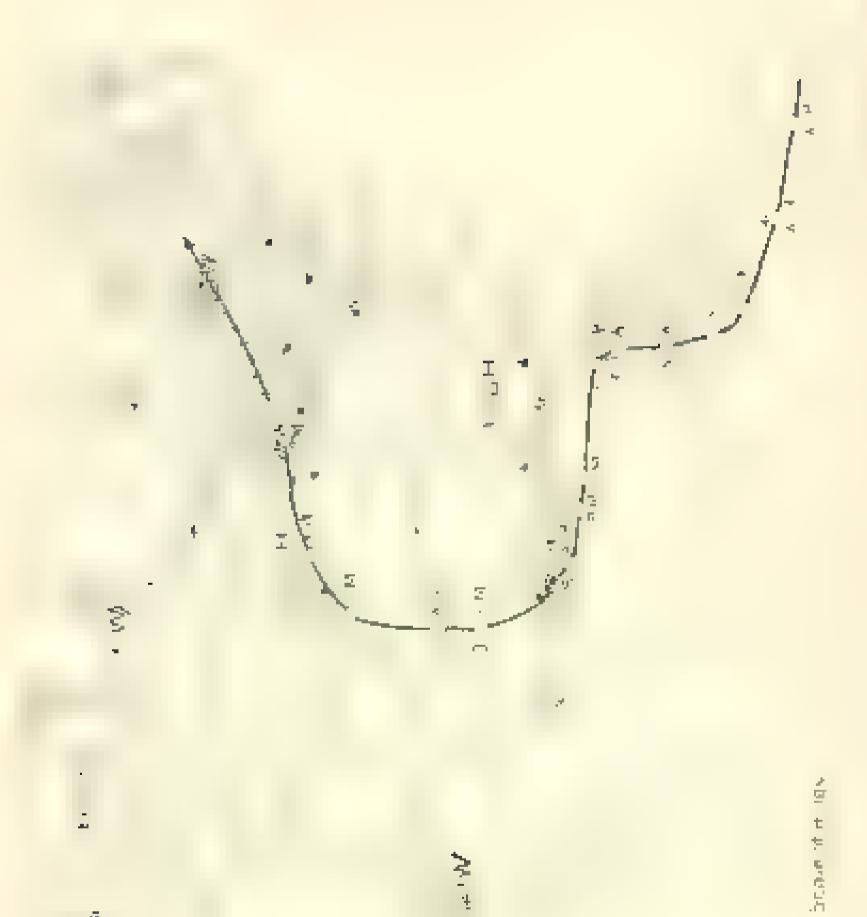
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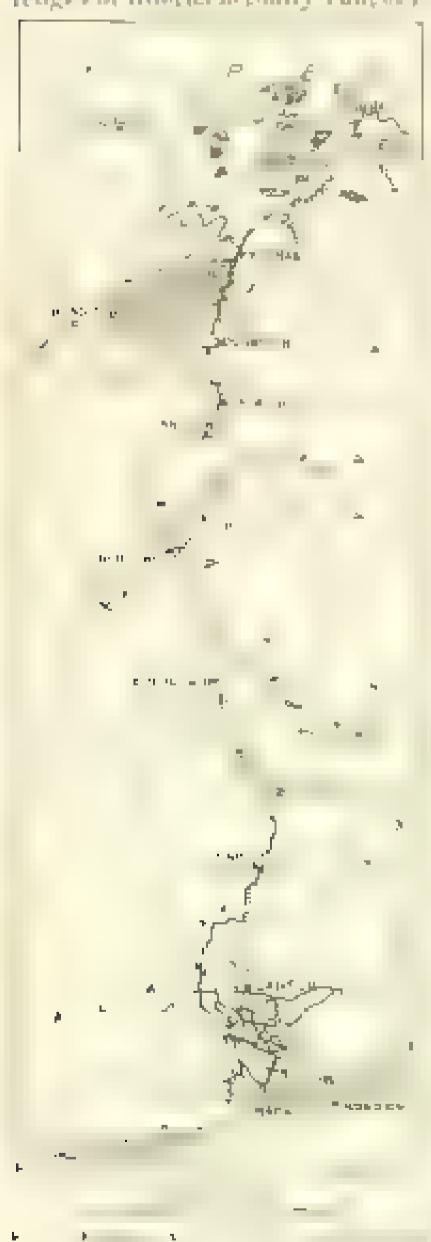
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HUNAN -THE CLOSED PROVINCE OF CHINA

by Whiliam Barchay Patsonson

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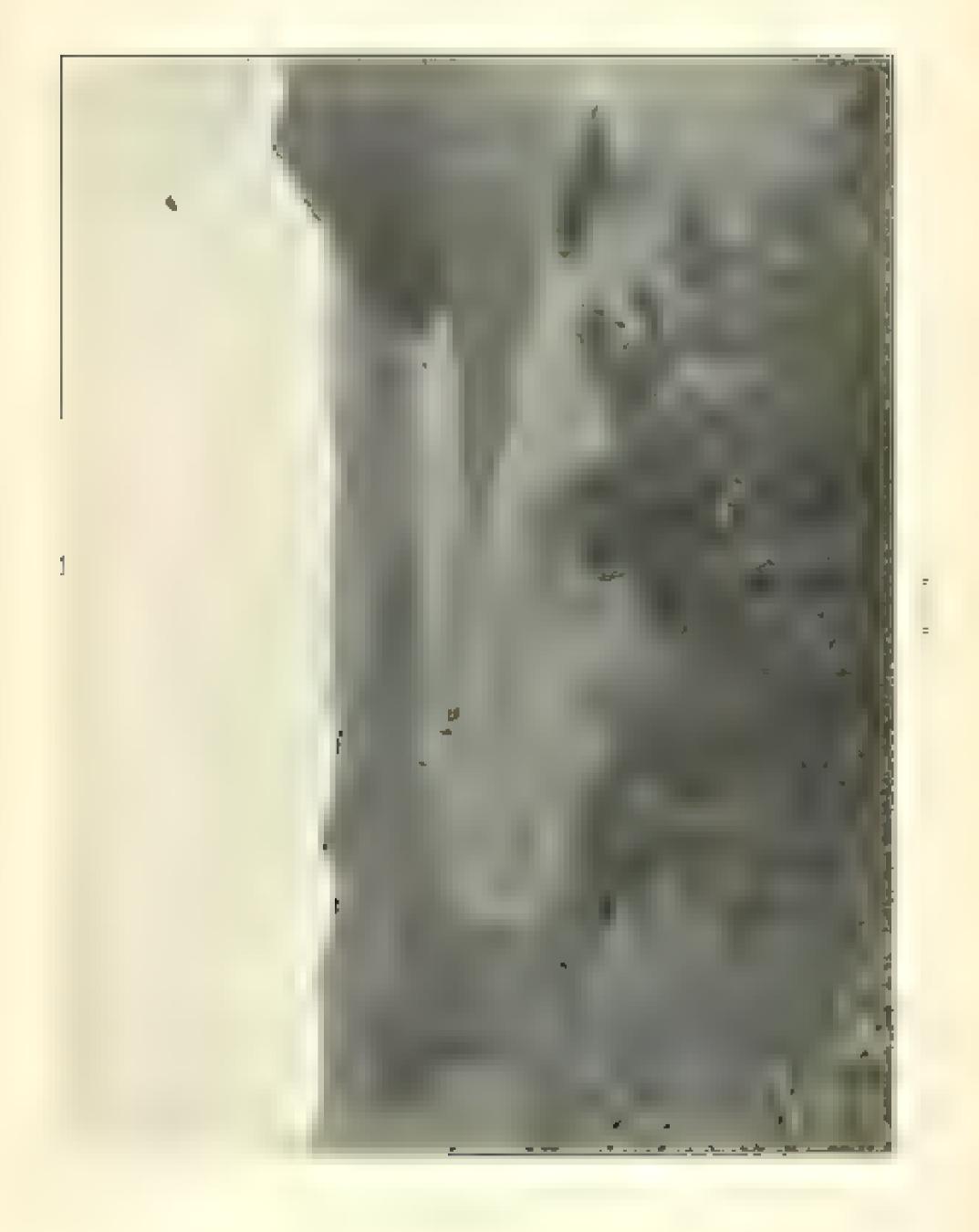
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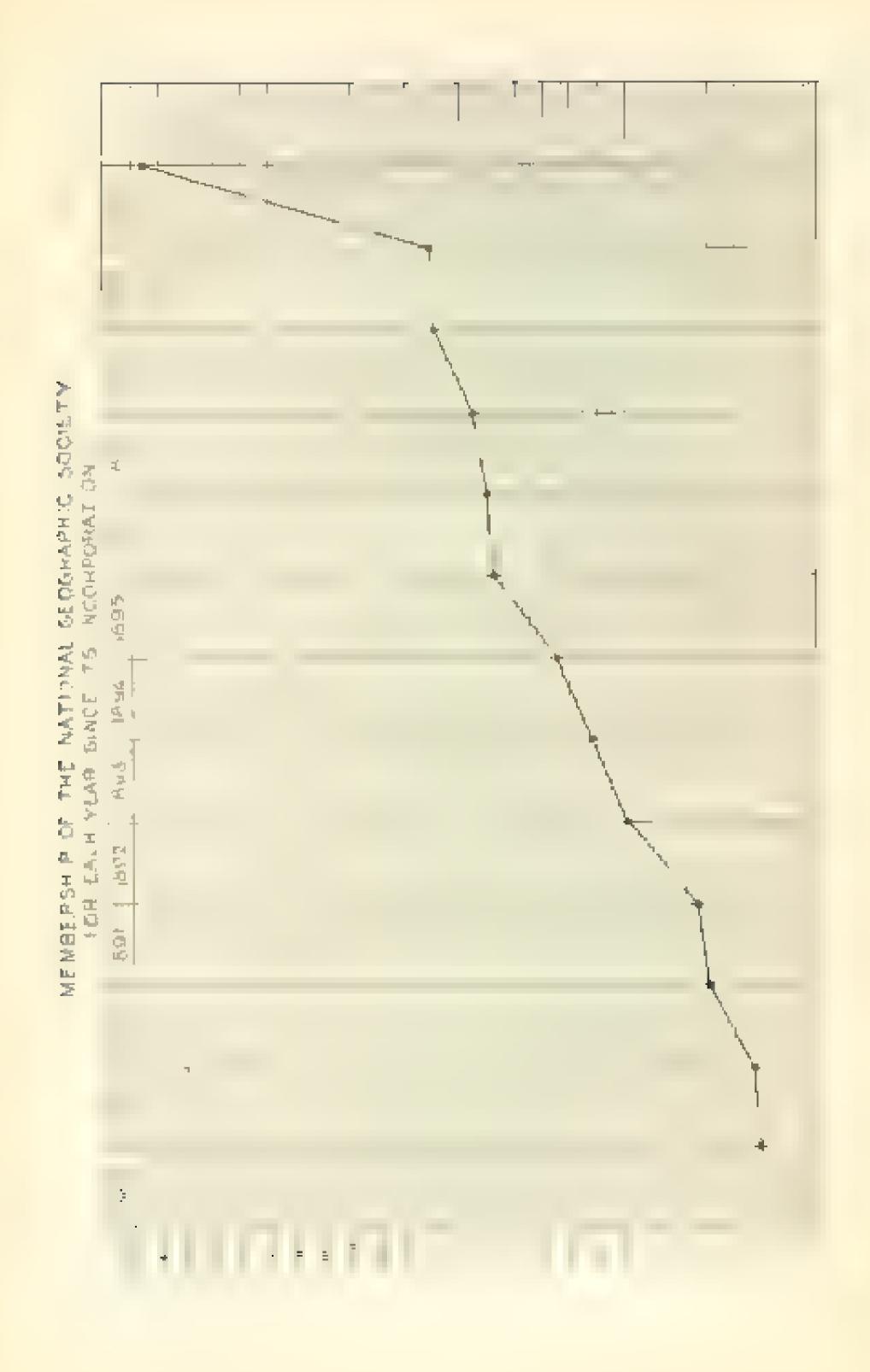
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GEOGRAPHIC NOTES

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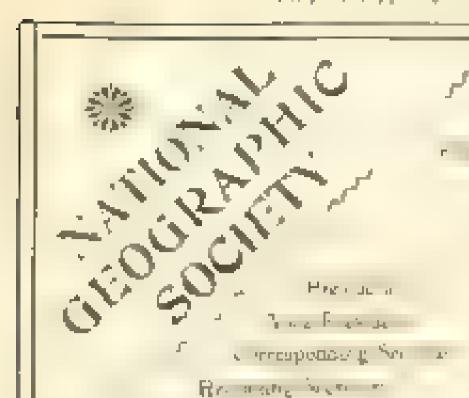
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Rest and The Care W. Washington, P. C.
Office Planter 8.30 A. M. to 5.00 P. M.

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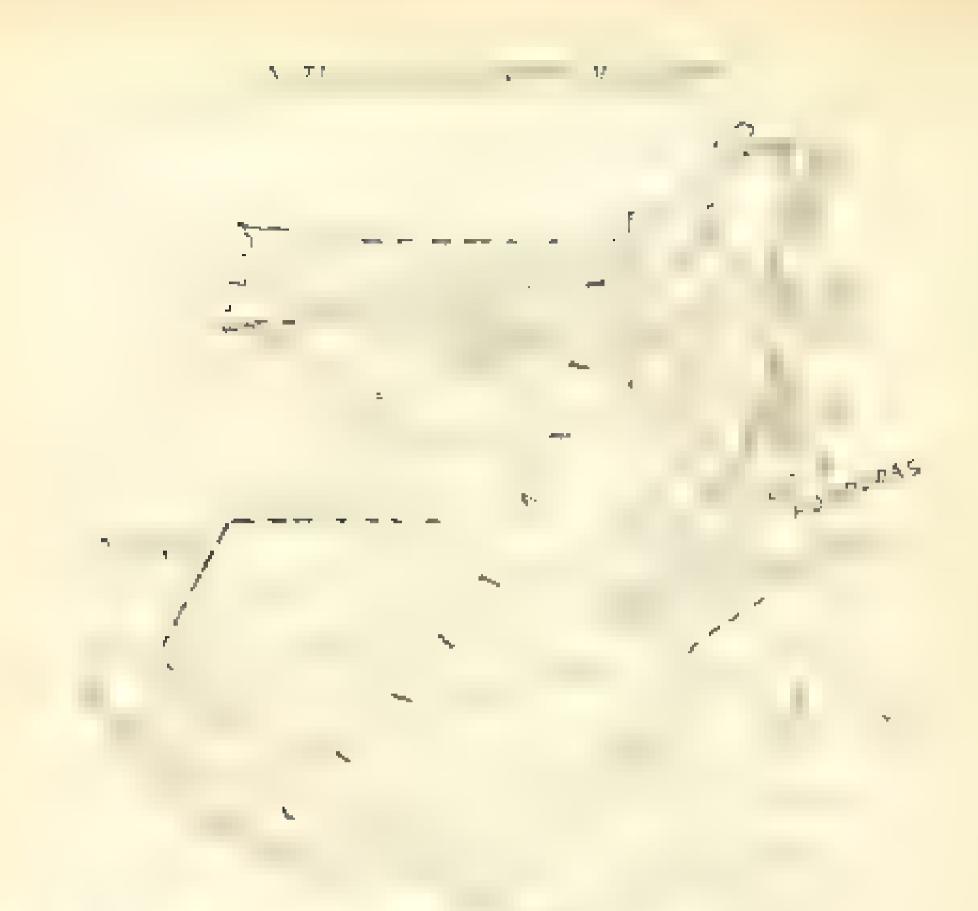
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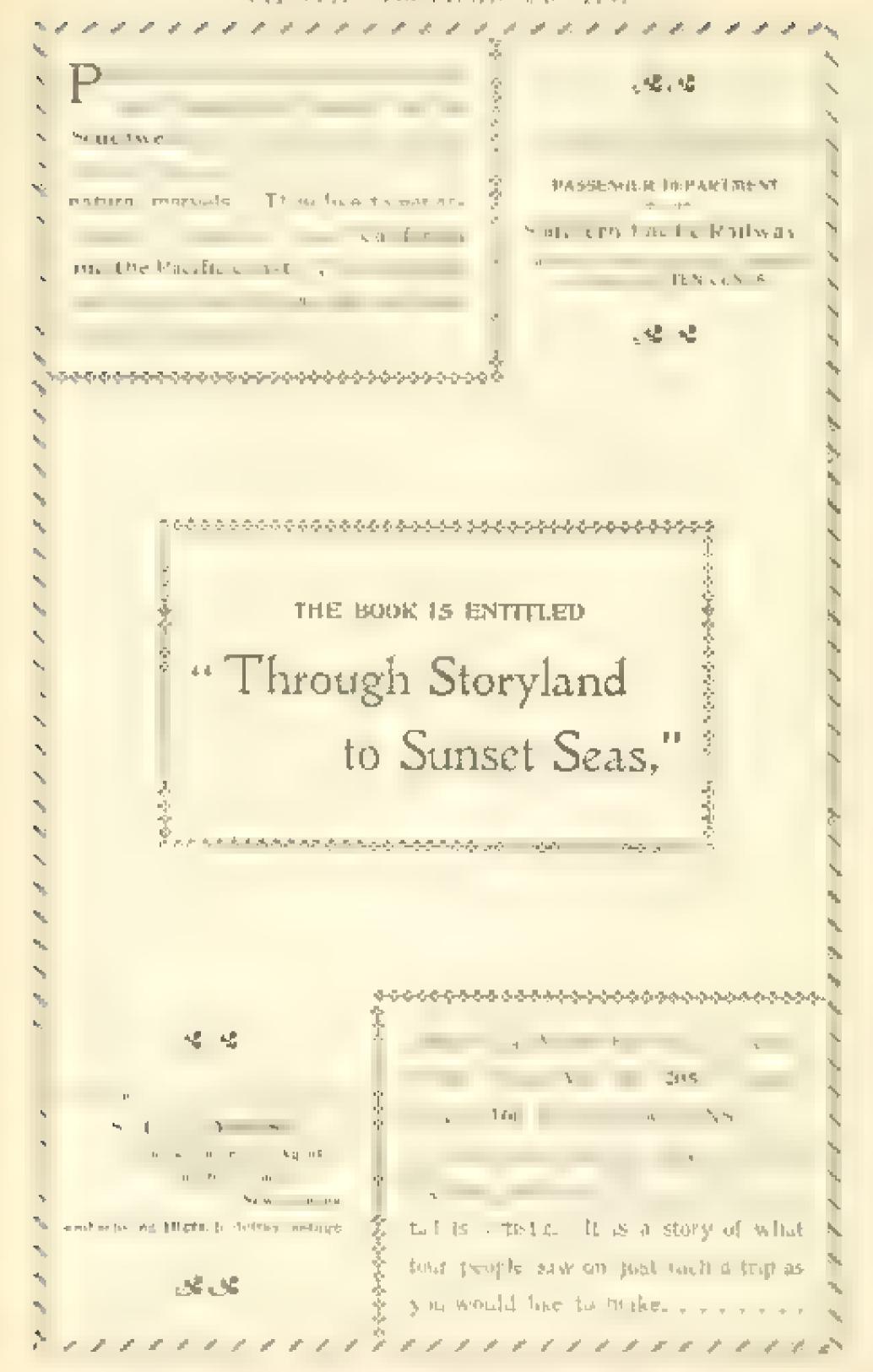
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